	Application No.	Applicant(s)		
		- pp		
Notice of Allowability	10/726,492	QUACH ET AL.		
Motice of Anowability	Examiner	Art Unit		
	Jack A Lane	2188		
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERIT herewith (or previously mailed), a Notice of Allowance (PTOI NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR	S IS (OR REMAINS) CLOSED85) or other appropriate comm IT RIGHTS. This application is	in this application. If not include nunication will be mailed in due	ded e course. THIS	
1. \boxtimes This communication is responsive to <u>the preliminary and the preliminary and t</u>	mendment filed 04/02/04.		·	
2. The allowed claim(s) is/are <u>1-36</u> .				
3. \boxtimes The drawings filed on <u>04 December 2003</u> are accepted	d by the Examiner.			
4. Acknowledgment is made of a claim for foreign prior	itv under 35 U.S.C. § 119(a)-(d)	or (f).		
a) All b) Some* c) None of the:	.,	(/)		
1. ☐ Certified copies of the priority documents	have been received.			
2. Certified copies of the priority documents		on No		
3. Copies of the certified copies of the priority			ation from the	
International Bureau (PCT Rule 17.2(a)).	, 2004	ya iii ana maamar ataga appina		
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DA		e a reply complying with the re	equirements	
noted below. Failure to timely comply will result in ABAND THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ONIVIENT of this application.			
5. A SUBSTITUTE OATH OR DECLARATION must be s INFORMAL PATENT APPLICATION (PTO-152) which			NOTICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets")	must be submitted.			
(a) ☐ including changes required by the Notice of Drafts		w (PTO-948) attached	•	
1) hereto or 2) to Paper No./Mail Date _	•			
(b) ☐ including changes required by the attached Exam Paper No./Mail Date		or in the Office action of		
Identifying indicia such as the application number (see 37 C each sheet. Replacement sheet(s) should be labeled as such			e back) of	
7. DEPOSIT OF and/or INFORMATION about the dattached Examiner's comment regarding REQUIREME	leposit of BIOLOGICAL MAT	ERIAL must be submitted.	Note the	
Attachment(s)				
1. Notice of References Cited (PTO-892)	5. Notice of Ir	nformal Patent Application (PT	O-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-9		Summary (PTO-413), ./Mail Date	*	
3. Information Disclosure Statements (PTO-1449 or PTO/		s Amendment/Comment		

Paper No./Mail Date

of Biological Material

4. Examiner's Comment Regarding Requirement for Deposit

9. Other ____.

8.

Examiner's Statement of Reasons for Allowance

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 (703) 746-4000

INSTRUCTIONS: This for appropriate. All further con indicated unless corrected to maintenance fee notification	m should be used for tran- respondence including the F below or directed otherwise is.	smitting the ISSUP eatent, advance ord in Block 1, by (a)	E FEE and PUBL ders and notification specifying a new	CATION FEE (if requirements of maintenance fees vicorrespondence address:	ired). Blocks 1 through 5 sl will be mailed to the current ; and/or (b) indicating a sepa	hould be completed where correspondence address as trate "FEE ADDRESS" for	
				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
23838 75	90 08/23/2004	have its own certificat	e of mailing or transmission.	in or former diawing, must			
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WASHINGTON, D	OC 20005			addressed to the Mai	nis Fee(s) Transmittal is being with sufficient postage for fir il Stop ISSUE FEE address TO (703) 746-4000, on the d	above, or being facsimile	
				transmitted to the OSF	10 (703) 740-4000, on the o	(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE	Ī	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/726,492	12/04/2003		Nhon T. Quach		02207/868603	7542	
TITLE OF INVENTION: C	IRCUIT AND METHOD FO	OR PROTECTING			HIGH PERFORMANCE MI		
APPLN. TYPE	SMALL ENTITY	ISSUE FE	E I	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330		\$300	\$1630	11/23/2004	
EXAM	IINER	ART UNIT		CLASS-SUBCLASS]		
LANE, I	JOHN A	2188		711-145000			
CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a				
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered attorn 2 registered pate listed, no name v	ey or agent) and the nan nt attorneys or agents. If vill be printed.	no name is 3		
3. ASSIGNEE NAME AND							
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion	clow, no assignee of this form is NOT	data will appear on Ta substitute for fili	the patent. If an assign ng an assignment.	nee is identified below, the d	locument has been filed for	
				TY and STATE OR CO	UNTRY)		
Please check the appropriate	e assignee category or catego	ries (will not be pri	inted on the patent)	: 🗖 Individual 🗖 C	orporation or other private gr	oup entity Government	
4a. The following fee(s) are			. Payment of Fee(s)				
				amount of the fee(s) is en	nclosed.		
☐ Publication Fee (No small entity discount permitted) ☐ Payment by credit card. Form PTO-2038 is attached.							
Advance Order - # of Copies The Director is hereby authorized by charge the required fee(s), or credit any overpaym Deposit Account Number (enclose an extra copy of this form).						credit any overpayment, to copy of this form).	
5. Change in Entity Status	(from status indicated above						
	MALL ENTITY status. See			~ ~	LL ENTITY status. See 37 C		
The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the reco	is requested to apply the Issublication Fee (if required) vords of the United States Pat	ne Fee and Publicat will not be accepted ent and Trademark	tion Fee (if any) or of the from anyone other Office.	o re-apply any previous than the applicant; a reg	ly paid issue fee to the applications attorney or agent; or the	ation identified above. he assignee or other party in	
Authorized Signature				Date			
Typed or printed name							
Alcandia, viigina 22313-	1750.				the public which is to file (an minutes to complete, includi- omments on the amount of tid Trademark Office, U.S. Dep SS. SEND TO: Commissioner		

Application/Control Number: 10/726,492

Art Unit: 2188

EXAMINER'S AMENDMENT

1. The application has been amended as follows:

In the specification, page 1, section "CROSS REFERENCE TO RELATED APPLICATIONS", after "09/750,094" (1st occurrence) insert ---now U.S. Patent No. 6,675,266---. After "10/435,386" insert ---now U.S. Patent No. 6,775,746---.

2. The following is an examiner's statement of reasons for allowance:

The closest art of record, namely Nagapudi et al. (6,510,506) and Okamoto et al. (4,910,688), neither teach nor render obvious the inventive embodiments of independent claims 1, 18, 23 and 30. With regard to claims 1 and 18, neither reference discusses an input conversion circuit for converting a 1-hot vector to a 2-vector, a memory array to store the 2-hot vector and an output conversion circuit to convert the 2-hot vector to the 1-hot vector. With regard to claims 23 and 30, neither reference discusses the method of converting a 1-hot vector to a 2-hot vector, storing the 2-hot vector and invalidating the 2-hot vector. The closest art of record does not discuss a conversion to a 2-hot vector.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/726,492

Art Unit: 2188

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jack A Lane whose telephone number is 703 305-3818. The examiner can normally be reached on Mon-Thurs from 7:30AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on 703 306-2903. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JAL

PRIMARY EXAMINER